

**METHOD AND SYSTEM FOR ACCESSING EXTERNALLY-DEFINED OBJECTS
FROM AN ARRAY-BASED MATHEMATICAL COMPUTING ENVIRONMENT**

ABSTRACT OF THE DISCLOSURE

5 A method and apparatus, including a computer program apparatus, which facilitate
invoking methods of objects defined within an object-oriented environment from an array-
based technical computing environment often used in conventional mathematical tools.
When a method is invoked from the computing environment, the techniques automatically
compare the array input parameters with data-types accepted by methods defined within the
10 object-oriented environment. Based on this comparison, the invention selects a method that
best accepts the input arrays. The invention, therefore, allows a user to easily invoke
methods from external objects, such as Java objects, directly from the technical computing
environment of the mathematical tool.

15